has identity with the *ced-3* and Interleukin-1β convertase (ICE) genes, said isolated protein having an alteration in the amino acid sequence of the product of a gene which has identity with the *ced-3* and ICE genes, said alteration corresponding to an amino acid substitution in the sequence of SEQ ID NO: 4 or 30 selected from the group consisting of:

- i) F at amino acid 26;
- ii) R at amino acid 65;
- iv) S at amino acid 287;
- v) truncation of said protein after amino acid 323;
- vi) truncation of said protein after amino acid 339;
- vii) V at amino acid 361;
- viii) K at amino acid 390; and
- ix) F at amino acid 393.
- 2. (Amended) The protein of claim 1, which is a protease cleaving after aspartate residues.
 - 3. (Amended) The protein of claim 1, which is a cysteine protease.
- 4. (Amended) An isolated ICE polypeptide (SEQ ID NO: 4 or 30) having an alteration which reduces the proteolytic activity of the protein, wherein said alteration is an amino acid substitution selected from the group consisting of:
 - a) F at amino acid 26;
 - b) R at amino acid 65;
 - c) S at amino acid 287;
 - d) truncation of said polypeptide after amino acid 323;
 - e) truncation of said polypeptide after amino acid 339;
 - f) V at amino acid 361;

- g) K at amino acid 390; and
- h) F at amino acid 393.
- 6. (Amended) A constitutively activated cell death protein comprising an amino acid sequence having deletions of the inhibitory amino-terminal portions, said sequence comprising a portion of the Ced-3 protein shown in SEQ ID NO: 2 of Figure 6A or SEQ ID NO: 29, said portion selected from the group consisting of:
 - a) the amino acids from 150 to 503 (SEQ ID NO: 20);
 - b) the amino acids from 373 to 503 (SEQ ID NO: 21); and
 - c) the amino acids from 150 to 372 (SEQ ID NO: 22).
- 7. (Amended) The protein of claim 6, further comprising a subportion of the region of Ced-3 from amino acids 1 to 149, as shown in SEQ ID NO: 2 of Figure 6A or SEQ ID NO: 29, said subportion enhancing the proteolytic activity of the protein.
- 8. (Amended) A constitutively activated cell death protein comprising an amino acid sequence having deletions of the inhibitory amino-terminal portions, said protein
- (a) having a substitution in the amino acid sequence ICE relative to the ICE sequence shown in Figure 6A (SEQ ID NO: 4) or SEQ ID NO: 30; and
- (b) comprising a portion of the ICE sequence in SEQ ID NO: 4 or 30, said portion selected from the group consisting of:
 - i) the amino acids from 111 to 404 (SEQ ID NO: 23);
 - ii) the amino acids from 298 to 404 (SEQ ID NO: 24); and
 - iii) the amino acids from 111 to 297 (SEQ ID NO: 25).
- 9. (Amended) An isolated protein having an amino acid alteration in the NEDD-2 protein (SEQ ID NO: 28), said alteration being an alteration which inactivates said protein, wherein said alteration is an amino acid substitution of A to V at amino acid

397, relative to the sequence of SEQ ID NO: 28.

- 10. (Amended) An isolated protein having an amino acid alteration in the NEDD-2 protein (SEQ ID NO: 28, said alteration being an alteration which inactivates said protein, wherein said alteration is an amino acid substitution of C to A at amino acid 319, relative to the sequence of SEQ ID NO: 28.
- 11. (Amended) An isolated protein having an amino acid alteration in the NEDD-2 protein (SEQ ID NO: 28), said alteration being an alteration which inactivates said protein, wherein said alteration is an amino acid substitution of C to S at amino acid 319, relative to the sequence of SEQ ID NO: 28.
- 12. (Amended) An isolated protein which is selected from the group consisting of Ced-3 (SEQ ID NO: 2 or 29), ICE (SEQ ID NO: 4 or 30), and NEDD-2 (SEQ ID NO: 28), said protein having an alteration selected from the group consisting of a substitution in amino acid:
 - a) Ser 183 of Ced-3 or Ser 126 of ICE;
 - b) Met 234 of Ced-3;
 - c) Arg 242 of Ced-3;
 - d) Leu 246 of Ced-3 or Leu 166 of ICE;
 - e) Ile 247 of Ced-3 or Ile 167 of ICE;
 - f) Ile 248 of Ced-3 or Ile 168 of ICE;
 - g) Asn 250 of Ced-3 or Asn 170 of ICE;
 - h) Phe 253 of Ced-3 or Phe 173 of ICE;
 - i) Arg 259 of Ced-3 or Arg 179 of ICE;
 - j) Gly 261 of Ced-3 or Gly181 of ICE;
 - k) Asp 265 of Ced-3 or Asp 185 of ICE;
 - 1) Gly 277 of Ced-3 or Gly 197 of ICE;

- m) Tyr 278 of Ced-3 or Tyr 198 of ICE;
- n) Val 280 of Ced-3 or Val 200 of ICE;
- o) Lys 283 of Ced-3 or Lys 203 of ICE;
- p) Asn 285 of Ced-3 or Asn 205 of ICE;
- q) Leu 286 of Ced-3 or Leu 206 of ICE;
- r) Thr 287 of Ced-3 or Thr 207 of ICE;
- s) Met 291 of Ced-3 or Met 211 of ICE;
- t) Phe 298 of Ced-3 or Phe 218 of ICE;
- u) His 304 of Ced-3 or His 244 of ICE;
- v) Asp 306 of Ced-3 or Asp 228 of ICE;
- w) Ser 307 of Ced-3 or Ser 229 of ICE;
- x) Leu 310 of Ced-3 or Leu 232 of ICE;
- y) Val 311 of Ced-3 or Val 233 of ICE;
- z) Ser 314 of Ced-3 or Ser 236 of ICE;
- aa) His 315 of Ced-3 or His 237 of ICE;
- bb) Gly 316 of Ced-3 or Gly 238 of ICE;
- cc) Ile 321 of Ced-3 or Ile 243 of ICE;
- dd) Gly 323 of Ced-3 or Gly 245 of ICE;
- ee) Ile 334 of Ced-3 or Ile 261 of ICE;
- ff) Asn 339 of Ced-3 or Asn 226 of ICE;
- gg) Pro 344 of Ced-3 or Pro 271 of ICE;
- hh) Leu 346 of Ced-3 or Leu 273 of ICE;
- ii) Lys 349 of Ced-3 or Lys 276 of ICE;
- jj) Pro 350 of Ced-3 or Pro 277 of ICE;
- kk) Lys 351 of Ced-3 or Lys 278 of ICE;
- ll) Gln 356 of Ced-3, Gln 283 of ICE, or Glu 323 of NEDD-2;
- mm) Ala 357 of Ced-3, Ala 284 of ICE, or Thr 324 of NEDD-2;
- nn) Cys 358 of Ced-3 or Cys 285 of ICE;

- oo) Arg 359 of Ced-3, Arg 286 of ICE, or Arg 326 of NEDD-2;
- pp) Gly 360 of Ced-3, Gly 287 of ICE, or Gly 327 of NEDD-2;
- qq) Asp 371 of Ced-3 or Asp 297 of ICE;
- rr) Asp 414 of Ced-3, Asp 326 of ICE, or Asp 362 of NEDD-2;
- ss) Arg 429 of Ced-3, Arg 341 of ICE, or Arg 377 of NEDD-2;
- tt) Gly 434 of Ced-3, Gly 346 of ICE, or Gly 382 of NEDD-2;
- uu) Ser 435 of Ced-3, Ser 347 of ICE, or Ser 383 of NEDD-2;
- vv) Ile 438 of Ced-3, Ile 350 of ICE, Ile 386 of NEDD-2;
- ww) Ala 449 of Ced-3, Ala 361 of ICE, or Ala 388 of NEDD-2;
- xx) Val 454 of Ced-3, Val 366 of ICE, or Val 402 of NEDD-2;
- yy) Leu 488 of Ced-3, Leu 394 of ICE, or Leu 438 of NEDD-2;
- zz) Tyr 493 of Ced-3, Tyr 399 of ICE, or Tyr 443 of NEDD-2; and
- aaa) Pro 496 of Ced-3, Pro 402 of ICE, or Pro 446 of NEDD-2.
- 13. (Amended) An isolated protein selected from the group consisting of Ced-3 (SEQ ID NO: 2 or 29), NEDD-2 protein (SEQ ID NO: 28), and ICE (SEQ ID NO: 4 or 30), said protein having an amino acid alteration, wherein said alteration is at Cys 358 of Ced-3, Cys 319 of NEDD-2, or Cys 285 of ICE.
- 14. (Amended) The isolated protein of claim 13, wherein said amino acid alteration at Cys 358 of Ced-3 or Cys 285 of ICE is a Cys to Ala alteration.
- 15. (Amended) The isolated protein of claim 13, wherein said protein is ICE and said amino acid alteration is at conserved amino acid Cys 285 of said ICE.
- 16. (Amended) The isolated protein of claim 13, wherein said protein is NEDD-2 and said alteration is at conserved amino acid amino acid 319 of said NEDD-2 (SEQ ID NO: 28).